

Macaron-shaped Minimal Computer for Ubiquitous Devices



Teamacaron[®]

Microcomputer
control?

No,
Macaron-computer.

in full-scale



Supporting T-Kernel 2.0

* For details on the availability date of T-Kernel 2.0 support version, please feel free to contact us.

- Best way to shorten the development period of intelligent embedded devices
 - Small and slim 50-sq-mm space-saving package
 - Compact and high-performance RTOS "T-Kernel"
 - Low-power CPU, well-used for cell-phones
- Functions such as RGB output, LAN, USB, microSD and Serial
 - For both prototype development and end products

Teamacaron Development Kit

(Hardware + Software + Development Environment + Documents)

Standard Price
(Tax not included)

98,000 yen

Teamacaron Execution Kit

(Hardware + Software License)

Standard Price
(Tax not included)

58,000 yen

* Please order the same number of "Teamacaron Development Kit" as your developers.
You can't develop a program for Teamacaron with "Teamacaron Execution Kit" alone.

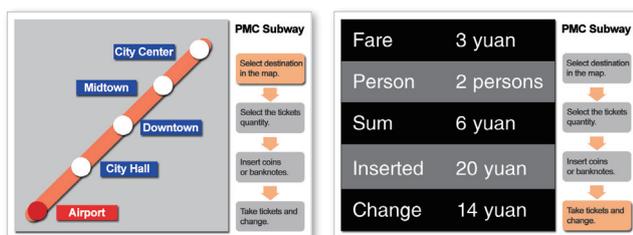
* We offer a volume discount. For details, please feel free to contact us.

- Teamacaron is the minimal computer for embedded control. By this computer, you can develop embedded devices in a short period of time, which balance embedded real-time control with advanced information processing.
- In addition to the compact and high-performance RTOS "T-Kernel 2" and ARM11 Core CPU, Teamacaron includes lots of middleware such as "T-Kernel Extension" for process management and file management, "TCP/IP" for network functions, and "PMC T-Shell" for GUI functions. These middleware easily realize the functions of information OS at the same level as Windows or Linux.
- You can also use the visual language "MircoScript" for development.

- Teamacaron Development Kit includes the integrated development environment "Eclipse for PMC T-Kernel". If this product and Windows PC are ready, you can start program development or debugging right away.
- Taking advantage of small and slim 50-sq-mm semi-open package, it can be embedded in small end products.
- Using I/O interfaces such as RGB output, LAN, USB, microSD and Serial(2ch), Teamacaron can be used for a device control. You can connect Teamacaron to PC peripherals(e.g. LCD monitor).
- This product is compliant with an environment-friendly RoHS Directive.

Applications of Teamacaron

- KIOSK terminal
- Digital signage
- Various monitors
- Intelligent camera
- Image processing engine
- New concept embedded products
- Prototype development of ubiquitous devices



Application1: Automatic ticket-vending machine

Scheduled	Flight No.	Destination	Terminal
17:45	PK853	Islamabad / Tokyo	2
17:45	CZ795	Islamabad / Tokyo	2
18:00	MU5087	Seoul	2
18:00	CZ511	Seoul	2
18:00	KE5852	Seoul	2
18:05	AC032	Toronto OT	3
18:10	CZ315	Seoul	2
18:10	KE5804	Seoul	2
18:25	UA898	Boston / Washington	3
18:25	CA8898	Boston / Washington	3
18:30	KA993	Hong Kong	3

Application2:
Digital signage



Application3:
Image recognition
(rock, paper or scissors)

Product specification

● Hardware specification

CPU	Renesas Electronics EMMA Mobile™ 1-D (ARM11 Core)
RAM	64MB
I/O I/F	RGB output, LAN, USB, microSD card, Serial(2ch) etc.
Dimensions	50mm x 50mm x 16mm (external size of the cover) 52mm x 57mm x 22mm (including connector protrusions)
RoHS	Compliant

- * Teamacaron has one USB port. When you connect plural USB devices at the same time, please use a USB hub.
- * SDHC cards can not be used as the boot disk. Please use a normal SD card.

● Software specification

Target-side Software

PMC T-Monitor, PMC T-Kernel 2, PMC T-Kernel Extension, Various device drivers, TCP/IP, PMC T-Shell(GUI middleware), MicroScript(Visual Language), various utilities, Basic Text Editor(word processor), Basic Figure Editor (graphic editing software), Basic Browser(HTML browser), Multi-Kanji fonts, etc.

Host-side Software

Eclipse for PMC T-Kernel(GUI based integrated development environment), Cygwin, GNU C/C++ compiler, Standard C library, T-Kernel related library, sample sources, etc.

- * The above software and related documents are included in the accessory CD-ROM of "Teamacaron Development Kit".

Optional Software

Kana-Kanji conversion, Movie player, Multi RFID driver for T-Kernel, I-right/TK(ITRON wrapper), Task Tracer for PMC T-Kernel

- * For details, please feel free to contact us.

Reference Books and Related Information

- T-Kernel Standard Handbook, Ken Sakamura (Ed.), **3800yen**.
* English documents are included as PDF files on CD-ROM.
- T-Kernel Kumikomi Programming Kyokasho (A Practical Guide to T-Kernel Embedded Programming), Ken Sakamura (Ed.), **4200yen**.
- Jissen TRON Kumikomi Programming(A Practical Guide to T-Kernel Embedded Programming for beginners), Ken Sakamura(Ed.), **3200yen**.
- TRONWARE Vol.1-126 (TRON bimonthly magazine, scheduled to be continued), **1200yen** (ordinary issue).
- * The above books are published by Personal Media Corporation in Japanese. Tax is not included.
- T-Kernel Kumikomi Programming Kyokasho(E-book for iPad), Ken Sakamura(Ed.).
- Jissen TRON Kumikomi Programming(E-book for iPad), Ken Sakamura(Ed.).
- * The above e-books are available at App Store. These e-books are written in Japanese.

T-Engine Forum <http://www.t-engine.org/>
 Personal Media Corporation (T-Engine Solution Website) <http://www.t-engine4u.com/en/>
 PMC International Retail Site <http://www.personal-media.co.jp/retail/>

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- TRON is an abbreviation of "The Real-time Operating System Nucleus".
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